

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

L Number	Hits	Search Text	DB	Time stamp
1	12	((("4,508,176") or ("4,518,044") or ("4,979,092") or ("5,343,775") or ("5.957,218") or ("6,041,867") or ("6,216,072")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 06:57
2	770386	lever or levers or stick or sticks or joystick or joysticks	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 06:57
3	2176661	center or centers or centered or centering	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 06:59
4	2	((("4,508,176") or ("4,518,044") or ("4,979,092") or ("5,343,775") or ("5.957,218") or ("6,041,867") or ("6,216,072")).PN.) and (center or centers or centered or centering)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 06:59
5	2	((("4,508,176") or ("4,518,044") or ("4,979,092") or ("5,343,775") or ("5.957,218") or ("6,041,867") or ("6,216,072")).PN.) and (center or centers or centered or centering) and (lever or levers or stick or sticks or joystick or joysticks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 06:59
6	42363	(lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:00
7	2	((("4,508,176") or ("4,518,044") or ("4,979,092") or ("5,343,775") or ("5.957,218") or ("6,041,867") or ("6,216,072")).PN.) and ((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:02
8	1425312	valve or valves	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:03
9	3958408	signal or signals or command or commands	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:04
10	84914	(valve or valves) near4 (signal or signals or command or commands)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:06
11	736	((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)) and ((valve or valves) near4 (signal or signals or command or commands))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:06
13	126	(magnitude or magnitudes) with independent with (duration or durations or time and amount)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:11

14	0	((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)) with ((valve or valves) near4 (signal or signals or command or commands))) and ((magnitude or magnitudes) with independent with (duration or durations or time and amount))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:10
12	23	((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)) with ((valve or valves) near4 (signal or signals or command or commands))) and ((magnitude or magnitudes) with independent with (duration or durations or time and amount)) and (lever or levers or stick or sticks or joystick or joysticks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:10
15	18	((magnitude or magnitudes) with independent with (duration or durations or time and amount)) and (lever or levers or stick or sticks or joystick or joysticks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:11
16	3	(magnitude or magnitudes) with independent with (duration or durations or time and amount) with (lever or levers or stick or sticks or joystick or joysticks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:23
17	26002	hitch or hitches	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:24
18	34	((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)) and ((valve or valves) near4 (signal or signals or command or commands))) and (hitch or hitches)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:25
19	490408	proportional or commensurate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:25
20	18	((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)) and ((valve or valves) near4 (signal or signals or command or commands))) and (hitch or hitches)) and (proportional or commensurate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:31
21	2000406	sensor or sensors or senses or sensing or sensed	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:31
22	272162	transducer or transducers	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:32
23	104127	closed near3 (loop or loops)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:32
24	1	((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering)) and (sensor or sensors or senses or sensing or sensed) and (transducer or transducers) and (closed near3 (loop or loops)) and (hitch or hitches)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:38

25	0	(move or moves or moved or moving or displaces or displacing or displaced or displace) with (hitch or hitches) with (proportional or commensurate) with (lever or levers or stick or sticks or joystick or joysticks) with (centered or center or centers or centering)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:41
26	2	(move or moves or moved or moving or displaces or displacing or displaced or displace) with (hitch or hitches) with (proportional or commensurate) with (lever or levers or stick or sticks or joystick or joysticks)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:50
27	344575	upper near3 (limit or position)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:51
28	219	(upper near3 (limit or position)) with (hitch or hitches)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:51
29	12965	raise near3 position	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:52
30	888	(lever or levers or stick or sticks or joystick or joysticks) with (raise near3 position)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:52
31	0	((lever or levers or stick or sticks or joystick or joysticks) with (raise near3 position)) with ((upper near3 (limit or position)) with (hitch or hitches))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:52
32	0	((lever or levers or stick or sticks or joystick or joysticks) with (raise near3 position)) same ((upper near3 (limit or position)) with (hitch or hitches))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:53
33	6	((lever or levers or stick or sticks or joystick or joysticks) with (raise near3 position)) and ((upper near3 (limit or position)) with (hitch or hitches))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:54
34	6	((lever or levers or stick or sticks or joystick or joysticks) with (raise near3 position)) and ((upper near3 (limit or position)) with (hitch or hitches)) and (valve or valves)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 07:55
35	6	((lever or levers or stick or sticks or joystick or joysticks) with (raise near3 position)) and ((upper near3 (limit or position)) with (hitch or hitches)) and ((valve or valves) near4 (signal or signals or command or commands))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 08:00
36	1156045	stop or stops	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 08:01
37	14	(hitch or hitches) adj (stop or stops)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/28 08:01

38	3	((hitch or hitches) adj (stop or stops)) and ((lever or levers or stick or sticks or joystick or joysticks) with (center or centers or centered or centering))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/06/28 08:01
----	---	---	---	------------------